

FORM PTO 1390  
(REV 5-93)

US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER  
2004\_0861ATRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. §371U.S. APPLICATION NO.  
(if known, set 37 CFR 1.52)  
NEW 10/500012International Application No.  
PCT/JP02/13436 ✓International Filing Date  
December 24, 2002 ✓Priority Date Claimed  
December 27, 2001 ✓

## Title of Invention

DIRECTION SENSOR AND ITS PRODUCTION METHOD ✓

## Applicant(s) For DO/EO/US

Kazuhiro ONAKA ✓

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. §371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. §371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. §371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. §371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. §371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau. **ATTACHMENT A**
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☒ A translation of the International Application into English (35 U.S.C. §371(c)(2)). **ATTACHMENT B**
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19.
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. §371(c)(4)). **ATTACHMENT C**
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. §371(c)(5)).

## Items 11. to 14. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98. **ATTACHMENT D**
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. **ATTACHMENT E**
13. ☒ A FIRST preliminary amendment. **ATTACHMENT F**  
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☒ Other items or information:
  - Replacement Formal Drawings (6 sheets; Figs. 1A-10B) - **ATTACHMENT G**
  - Form PCT/IB/304 - **ATTACHMENT H**
  - Front page of PCT International Publication - **ATTACHMENT I**

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

U.S. APPLICATION NO. NEW <b>107500012</b>		INTERNATIONAL APPLICATION NO. PCT/JP02/13436		ATTORNEY'S DOCKET NO. 2004_0861A	
15. <input checked="" type="checkbox"/> The following fees are submitted  <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)):</b> Neither international preliminary examination fee nor international search fee paid to USPTO and International Search Report not prepared by the EPO or JPO ..... \$1080.00 International Search Report has been prepared by the EPO or JPO ..... \$ 920.00 International preliminary examination fee not paid to USPTO but international search paid to USPTO ..... \$ 770.00 International preliminary examination fee paid to USPTO but claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$ 690.00 International preliminary examination fee paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$ 100.00  <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				CALCULATIONS  PTO USE ONLY	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
Claims	Number Filed	Number Extra	Rate		
Total Claims	17 - 20 =	0	X \$18.00	\$	
Independent Claims	2 - 3 =	0	X \$86.00	\$	
Multiple dependent claim(s) (if applicable)			+ \$290.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$920.00	
<input type="checkbox"/> Small Entity Status is hereby asserted. Above fees are reduced by 1/2.				\$	
<b>SUBTOTAL =</b>				\$920.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+	\$
<b>TOTAL NATIONAL FEE =</b>				\$920.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +				\$ 40.00	
<b>TOTAL FEES ENCLOSED =</b>				\$960.00	
				Amount to be refunded	\$
				Amount to be charged	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>960.00</u> to cover the above fees is enclosed. A duplicate copy of this form is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. 23-0975 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>23-0975</u> .					
<b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b))          must be filed and granted to restore the application to pending status.</b>					
19. CORRESPONDENCE ADDRESS   <div style="text-align: center;">           CUSTOMER NO.  <b>000513</b> </div>			By: <u>Charles R. Watts</u> Charles R. Watts, Registration No. 33,142  WENDEROTH, LIND & PONACK, L.L.P. 2033 "K" Street, N.W., Suite 800 Washington, D.C. 20006-1021 Phone: (202) 721-8200 Fax: (202) 721-8250  June 23, 2004		

[CHECK NO. 62493]

[2004\_0861A]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

10/500012

DT09 Rec'd PCT/PTO 23 JUN 2004

In re application of :

Kazuhiro ONAKA :

Attn: BOX PCT

Serial No. NEW :

Attorney Docket No. 2004\_0861A

Filed June 23, 2004 :

DIRECTION SENSOR AND ITS  
PRODUCTION METHOD  
[Corresponding to PCT/JP02/13436  
Filed December 24, 2002]

THE COMMISSIONER IS AUTHORIZED  
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FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

SUBMISSION OF REPLACEMENT FORMAL DRAWINGS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Kindly replace the seven (7) original drawing sheets (containing Figs. 1A-10B) with the attached six (6) replacement formal sheets (still containing Figs. 1A-10B).

The changes to the drawings are the following: (1) drawing sheet 7 containing the list of reference numerals has been canceled; (2) the sheet numbers 1/7, 2/7, etc. have been removed from the drawing sheets; and (3) in Fig. 1A, the section line label has been changed from A-A to --1B-1B--; and, in Fig. 10A, the section line label has been changed from "A-A" to --10B-10B-- (corresponding changes have been made in the specification); and (4) Figs. 10A and 10B have been labeled "Prior Art".

Approval and entry of these replacement formal drawings is respectfully requested.

Respectfully submitted,

Kazuhiro ONAKA

By 

Charles R. Watts

Registration No. 33,142

Attorney for Applicant

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Telephone (202) 721-8200  
Facsimile (202) 721-8250  
June 23, 2004

ATTACHMENT G